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publication: 06.02.96(72) Inventor: YUKIMUNE TAKAHITO
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(54) PRODUCTION OF TAXANE-TYPE DITERPENE

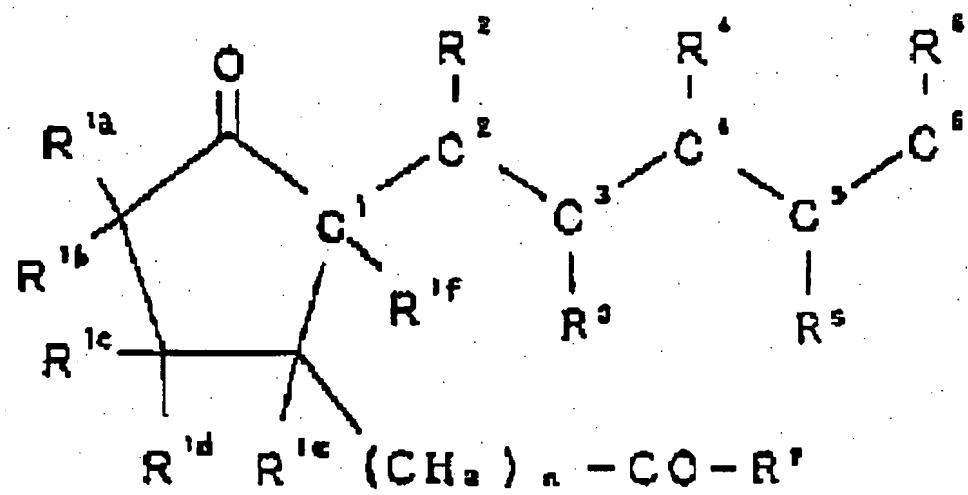
(57) Abstract:

PURPOSE: To produce a taxane-type diterpene useful e.g. as a treating agent for ovarian cancer, mammary cancer, pulmonary cancer, etc., by culturing cells or tissues of a plant capable of producing a taxane-type diterpene in the presence of a specific jasmonic acid and recovering the compound from the cultured product.

CONSTITUTION: This taxane-type diterpene (e.g. taxol) is produced in high productivity by culturing the cells or tissues of a plant capable of producing a taxane-type diterpene (e.g. *Taxus brevifolia*) in the presence of a jasmonic acid compound of, formula [R1a, R1b, R1c, R1d and R1f are each H, OH, a 1-6C alkyl or a 1-6C alkoxy; R2 to R6 are each H or a 1-6C alkyl; the side chain bonded to C1 may contain one or more double bonds; R7 is OH, OM (M is an alkali metal, an alkaline earth metal or NH₄), NR_{8a}R_{8b} (R_{8a} and R_{8b} are each H, a 1-6C acyl, a 1-6C alkyl or an amino acid residue), OR₉ (R₉ is a 1-6C alkyl or a carbohydrate residue) or a 1-6C alkyl; (n) is 1-7] (e.g. methyl jasmonate) and recovering the

Compound from the cultivation
product.

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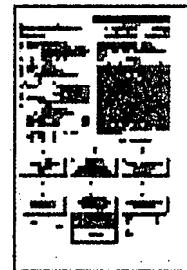
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**>Title:** JP8033490A2: PRODUCTION OF TAXANE-TYPE DITERPENE**Country:** JP Japan**Kind:** A**Inventor:** YUKIMUNE TAKAHITO;
HARA YASUHIRO;
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Assignee: MITSUI PETROCHEM IND LTD
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** Feb. 6, 1996 / March 7, 1995**Application Number:** JP1995000047580**IPC Code:** C12P 7/40; C12P 17/02; C12P 7/40;**Priority Number:** May 18, 1994 JP1994000104213**Abstract:**

PURPOSE: To produce a taxane-type diterpene useful e.g. as a treating agent for ovarian cancer, mammary cancer, pulmonary cancer, etc., by culturing cells or tissues of a plant capable of producing a taxane-type diterpene in the presence of a specific jasmonic acid and recovering the compound from the cultured product.

CONSTITUTION: This taxane-type diterpene (e.g. taxol) is produced in high productivity by culturing the cells or tissues of a plant capable of producing a taxane-type diterpene (e.g. Taxus brevifolia) in the presence of a jasmonic acid compound of, formula [R1a, R1b, R1c, R1d and R1f are each H, OH, a 1-6C alkyl or a 1-6C alkoxy; R2 to R6 are each H or a 1-6C alkyl; the side chain bonded to C1 may contain one or more double bonds; R7 is OH, OM (M is an alkali metal, an alkaline earth metal or NH4), NR8aR8b (R8a and R8b are each H, a 1-6C acyl, a 1-6C alkyl or an amino acid residue), OR9 (R9 is a 1-6C alkyl or a carbohydrate residue) or a 1-6C alkyl; (n) is 1-7] (e.g. methyl jasmonate) and recovering the compound from the cultivation product.

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PDF	Publication	Pub. Date	Filed	Title
	WO9514103A1	May 26, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	US20020012976A1	Jan. 31, 2002	April 28, 1999	METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DILTERPENE AT A HIGH RATE

<input checked="" type="checkbox"/>	<u>US6403343</u>	June 11, 2002	April 28, 1999	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
<input checked="" type="checkbox"/>	<u>US5968789</u>	Oct. 19, 1999	Feb. 28, 1997	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
<input checked="" type="checkbox"/>	<u>US5637484</u>	June 10, 1997	July 14, 1995	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	<u>KR0172606B1</u>	Feb. 1, 1999	July 5, 1995	PROCESS FOR PRODUCING TAXANE DITERPENE
	<u>KR0169081B1</u>	Jan. 15, 1999	June 18, 1998	METHOD OF HARVESTING CULTURED CELLS CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>KR0169080B1</u>	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
	<u>KR0169079B1</u>	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
	<u>JP8116981A2</u>	May 14, 1996	Oct. 18, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP8056681A2</u>	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP8056680A2</u>	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP8033490A2</u>	Feb. 6, 1996	March 7, 1995	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP8009983A2</u>	Jan. 16, 1996	June 28, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP7308197A2</u>	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	<u>JP7308196A2</u>	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	<u>JP7135967A2</u>	May 30, 1995	Nov. 15, 1993	PREPARATION OF CULTURED CELL HAVING HIGH PRODUCTIVITY OF TAXANE-TYPE DITERPENE
<input checked="" type="checkbox"/>	<u>EP1063300A3</u>	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
<input checked="" type="checkbox"/>	<u>EP1063300A2</u>	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
<input checked="" type="checkbox"/>	<u>EP1063299A3</u>	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
<input checked="" type="checkbox"/>	<u>EP1063299A2</u>	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
<input checked="" type="checkbox"/>	<u>EP1054065B1</u>	July 31, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
<input checked="" type="checkbox"/>	<u>EP1054065A1</u>	Nov. 22, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-

				type diterpene at a high rate
<input checked="" type="checkbox"/>	<u>EP0683232B1</u>	Feb. 14, 2001	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>EP0683232A4</u>	Nov. 29, 1995	Nov. 9, 1994	
<input checked="" type="checkbox"/>	<u>EP0683232A1</u>	Nov. 22, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>DE69431135C0</u>	Sept. 5, 2002	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-TYP DITERPEN UND METHODE ZUR GEWINNUNG VON KULTURZELLEN DIE TAXAN-TYP DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<u>DE69426692T2</u>	June 21, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<u>DE69426692C0</u>	March 22, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<u>CN1251391A</u>	April 26, 2000	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTIVE CULTURE CELLS OF TAXIANES DITERPENE
	<u>CN1248630A</u>	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
	<u>CN1248629A</u>	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
	<u>CN1119028A</u>	March 20, 1996	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>CN1083012B</u>	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXANES DITERPENE
	<u>CN1083011B</u>	April 17, 2002	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTION CULTURE CELLS OF TAXANES DITERPENE
	<u>CN1083010B</u>	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXUES ALKANE DITERPENE
	<u>CN1058054B</u>	Nov. 1, 2000	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>CA2153986AA</u>	May 26, 1995	Nov. 9, 1994	A METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DITERPENE AT A HIGH RATE

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